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Abstract
Information varies quickly in this world. Most of previous information can be used to predict future result. However, history information includes lots of superfluous information and it grows fast. As a result, removing superfluous information efficiently becomes very important in information system. Rough Set is a useful method to represent and analyze knowledge in an information table. However, the process to find all reducts in an information table is usually not efficient. This paper develops efficient methods by merging attributes to remove superfluous information and generate reducts. Simulations are generated and compared to the well known rough set software-Rough Set Exploration System (RSES). The results show much improvement can be achieved by using Incremental Merge methods. By using Incremental Merge methods, we believe the rough set theory can be extended to many real life applications.
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